

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A vaso-occlusive coil having an elongate helical primary shape, the primary shape defining a primary axis, the coil further having a three-dimensional secondary shape, the secondary shape comprising a substantially helical first section having at least 10 complete loops and a second section having a plurality of non-overlapping loops, said non-overlapping loops comprising a section of the coil in which the primary helical coil is unwound, each loop defining a plane oriented at an angle from about thirty degrees to about one hundred fifty degrees relative to a plane defined by any immediately preceding or any immediately succeeding loop along the primary axis.
2. (Original) The coil of claim 1, the loops including generally circular loops.
3. (Original) The coil of claim 1, the loops including generally elliptical loops.
4. (Original) The coil of claim 1, , the primary shape being wound into the secondary shape, the loops being wound without contacting each other.
5. (Original) The coil of claim 1, the loops of the secondary shape not contacting each other, absent a force being applied to the secondary shape.

6. (Original) The coil of claim 1, the secondary shape further comprising a substantially helical third section, wherein the second section is disposed along the primary axis between the first and third sections.
7. (Original) The coil of claim 1, each loop defining a plane oriented generally orthogonal to a plane defined by any immediately preceding or succeeding loop along the primary axis.
8. (Original) The coil of claim 1, wherein at least two loops define respective planes disposed generally parallel to each other.
9. (Original) The coil of claim 1, each loop defining a plane disposed generally parallel to a plane defined by another loop.
10. (Original) The coil of claim 1, the second section having up to about fifteen loops.
11. (Original) The coil of claim 1, at least one loop being wound about an axis for less than about three hundred sixty degrees.
12. (Original) The coil of claim 1, at least one loop being wound around an axis for less than about two hundred seventy degrees.
13. (Original) The coil of claim 1, at least one loop being wound around an axis for less than about one hundred eighty degrees.

14. (Currently Amended) A vaso-occlusive coil, comprising
- a substantially helical primary shape defining a primary axis, the primary shape being wound into a three-dimensional secondary shape, the secondary shape comprising
- a substantially helical first section having at least 10 complete loops, and
- a second section immediately following the first section along the primary axis, the second section comprising a plurality of non-overlapping loops, said non-overlapping loops comprising a section of the coil in which the primary helical coil is unwound, and including a first loop, a second loop immediately following the first loop along the primary axis, and a third loop immediately following the second loop along the primary axis,
- wherein the first loop defines a plane oriented at an angle of at least about thirty degrees relative to a plane defined by the second loop, and the second loop defines a plane oriented at an angle of at least about thirty degrees relative to a plane defined by the third loop.
15. (Original) The coil of claim 14, the secondary shape further comprising a third section immediately following the second section along the primary axis.
16. (Original) The coil of claim 14, the loops being wound without contacting one another.
17. (Original) The coil of claim 14, the first loop defining a plane oriented generally orthogonal to a plane defined by the second loop, and the second loop defining a plane oriented generally orthogonal to a plane defined by the third loop.

18. (Original) The coil of claim 14, the first loop defining a plane disposed generally parallel to a plane defined by the third loop.

19. (Original) The coil of claim 14, the second section further comprising a fourth loop immediately following the third loop along the primary axis, wherein the third loop defines a plane oriented at an angle of at least about thirty degrees relative to a plane defined by the fourth loop.

20. (Original) The coil of claim 19, the first loop defining a plane disposed generally parallel to a plane defined by either of the third or fourth loops.

21. (Original) The coil of claim 13, wherein respective planes defining the first, second and third loops form a generally triangular configuration.

22. (New) The coil of claim 1, wherein said secondary shape further comprises a third helical section having at least 10 complete loops, wherein said second section is between said first section and said second section.

23. (New) The coil of claim 14, wherein said secondary shape further comprises a third helical section having at least 10 complete loops, wherein said second section is between said first section and said second section.